

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled PRINTED WIRING BOARD-FORMING SHEET, VIA HOLE-FORMING METHOD, RESIN SHEET HAVING FILLED VIA HOLE, PRINTED WIRING BOARD, AND PROCESS FOR PRODUCING THE SAME, the specification of which

(check one)

☒ is attached hereto.

☒ was filed on May 1, 2000 as

Application Serial No. PCT/JP00/02879

and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

| Prior Foreign Application(s) | | | Priority Claimed | |
|------------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------------------|
| <u>144275/1999</u> | <u>Japan</u> | <u>25/May/1999</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

COPY

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

| | | | | | |
|-------------------------|--------|--------------------|--------|----------------------|--------|
| William H. Logsdon | 22,132 | Barbara E. Johnson | 31,198 | Lester N. Fortney | 38,141 |
| Russell D. Orkin | 25,363 | Paul M. Reznick | 33,059 | Randall A. Notzen | 36,882 |
| David C. Hanson | 23,024 | John W. McIlvaine | 34,219 | Jesse A. Hirshman | 40,016 |
| Frederick B. Ziesenheim | 19,438 | Michael I. Shamos | 30,424 | James G. Porcelli | 33,757 |
| Richard L. Byrne | 28,498 | Blynn L. Shideler | 35,034 | Kent E. Baldauf, Jr. | 36,082 |
| Kent E. Baldauf | 25,826 | Julie W. Meder | 36,216 | | |

Send Correspondence to:

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Direct Telephone calls to: (name and telephone number) Russell D. Orkin (412) 471-8815

Full name of sole or first inventor

Toshiyuki NAKAMURA

Inventor's signature

Toshiyuki Nakamura

Date

Dec. 20, 2000

Residence

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Citizenship

Japanese

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382-8588, Japan

Full name of second joint inventor, if any

Hideto TANAKA

Second inventor's signature

Hideto Tanaka

Date

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Citizenship

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(Supply similar information and signature for third and subsequent joint inventors.)

Full name of third joint inventor, if any

Akira ICHIRYU

Third inventor's signature

Akira Ichiryu

Date

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1333-2, Haraichi, Ageo-shi, Saitama 362-0021, Japan

Full name of fourth joint inventor, if any

Motonobu TAKAHASHI

Fourth inventor's signature

Motonobu Takahashi

Date

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Full name of fifth joint inventor, if any

Masahito ISHII

Fifth inventor's signature

Masahito Ishii

Date

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Residence

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Citizenship

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Post Office Address

4-19-15, Higashi Toyoda, Hino-shi, Tokyo 191-0052, Japan

Full name of sixth joint inventor, if any

Daisuke ARAI

Sixth inventor's signature

Daisuke Arai

Date

Dec. 20, 2000

Residence

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Citizenship

Japanese

Post Office Address

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

RECEIVED
WEBB, ZIESENHEIM, LOGSDON,
ORKIN, & HANSON PC

MAY 2 2001

APRIL 27, 2001

WEBB ZIESENHEIM LOGSDON, ET AL.
KENT E. BALDAUF
700 KOPPERS BUILDING
436 SEVENTH AVENUE
PITTSBURGH, PA 15219-1818



101617389A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/24/2001

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
NAKAMURA, TOSHIYUKI

DOC DATE: 12/20/2000

ASSIGNOR:
TANAKA, HIDETO

DOC DATE: 12/20/2000

ASSIGNOR:
ICHIRYU, AKIRA

DOC DATE: 12/20/2000

ASSIGNOR:
TAKAHASHI, MOTONOBU

DOC DATE: 12/20/2000

ASSIGNOR:
ISHII, MASAHIRO

DOC DATE: 12/20/2000

ASSIGNOR:
ARAI, DAISUKE

DOC DATE: 12/20/2000

ASSIGNEE:
MITSUI MINING & SMELTING CO., LTD.
11-1, OSAKI 1-CHOME, SHINAGAWA-KU
TOKYO 141-8584, JAPAN

COPY

ASSIGNEE:

SUZUKI CO., LTD.

2150-1, OAZA OGAWARA, SUZAKA-SHI

NAGANO 382-8588, JAPAN

SERIAL NUMBER: 09744424

PATENT NUMBER:

FILING DATE: 01/24/2001

ISSUE DATE:

KIMBERLY WHITE, EXAMINER

ASSIGNMENT DIVISION

OFFICE OF PUBLIC RECORDS

02 20-2001

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OMB No. 0651-0011 (exp



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COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

ONLY

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1.7401

To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Toshiyuki NAKAMURA, Hideto TANAKA,
Akira ICHIRYU, Motonobu TAKAHASHI,
Masahito ISHII and Daisuke ARAI

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: December 20, 2000

2. Name and address of receiving party(ies)

Name: MITSUMI MINING & SMELTING CO., LTD. and
SUZUKI CO., LTD.

Street Address: 11-1, Osaki 1-chome,
Shinagawa-ku, Tokyo 141-8584, Japan; and
2150-1, Oaza Ogawara, Suzaka-shi, Nagano
382-8588, Japan; respectively

City: _____
Country: _____ ZIP: _____

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application,
the execution date of the application is: December 20, 2000

A. Patent Application No. (s)

/26 E001 SMATARD 00000005 09744424

FC 301

40.00 US

B. Patent No. (s)

09744424

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kent E. Baldauf
Internal Address: Webb Ziesenheim Logsdon
Orkin & Hanson, P.C.
Street Address: 700 Koppers Building
436 Seventh Avenue
City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed with filing fee
☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach triplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kent E. Baldauf
Name of Person Signing
Reg. No. 25,826

Signature

January 24, 2001
Date

Total number of pages including cover sheet, attachments and document

4

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

WHEREAS, We, See the attached sheet, please.

in See the attached sheet, please., residing

See the attached sheet, please., respectively, ***
 have invented certain new and useful improvements entitled
 PRINTED WIRING BOARD-FORMING SHEET, VIA HOLE-FORMING METHOD, RESIN SHEET HAVING FILLED VIA
 for which we have this day executed an application for United
 States Letters Patent;

1) MITSUI MINING & SMELTING CO., LTD.

AND, WHEREAS 2) SUZUKI CO., LTD.

corporation of Japan See the attached sheet, please., having a
 place of business at 1) 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8584, Japan
 and 2) ~~hereinafter~~ ~~called~~ ~~the~~ ~~"assignee"~~, is desirous of acquiring the
 entire right, title, and interest in and to said application and
 the inventions and improvements therein disclosed.

NOW, THEREFORE, in consideration of One (\$1.00) Dollar
 and other good and valuable consideration paid to us by said
 assignee, the receipt of which is hereby acknowledged, we do
 hereby assign, sell, transfer, and set over unto said assignee
 the entire right, title and interest in and to said application
 and the inventions and improvements therein disclosed for the
 United States and all foreign countries and any Letters Patent
 which may issue therefor in the United States and all foreign
 countries and all divisions, reissues, continuations, renewals,
 and/or extensions thereof, said assignee to have and to hold the
 interests herein assigned to the full ends of the terms of said
 Letters Patent and any and all divisions, reissues,
 continuations, renewals, and/or extensions thereof, respectively,
 as fully and entirely as the same would have been held and
 enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested
 to issue such Letters Patent in accordance herewith. We covenant
 that we are the lawful owners of the said application,
 inventions, and improvements, that the same are unencumbered,
 that no license has been granted to make, use, or vend the said
 inventions or improvements or any of them, and that we have the
 full right to make this assignment.

And for the consideration aforesaid, we agree jointly
 and individually that we will communicate to said assignee or the
 representatives thereof any facts known to us respecting said
 inventions and improvements, and will, upon request, but without
 expense to us, testify in any legal proceedings, sign all lawful
 papers, execute all divisional, reissue, continuation, renewal,
 and/or extension applications, make all rightful oaths, and
 generally do all other and further lawful acts, deemed necessary
 or expedient by said assignee or by counsel for said assignee, to
 assist or enable said assignee to obtain and enforce full
 benefits from the rights and interests herein assigned. This
 assignment shall be binding upon our heirs, executors,

*** HOLE, PRINTED WIRING BOARD, AND PROCESS FOR PRODUCING THE SAME

2150-1, Oaza Ogawara, Suzaka-shi, Nagano 382-8588, Japan

administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

EXECUTED December 20, 2000.

Akio Kusama
Witness

Fumiaki Karasawa
Witness

Toshiyuki Nakamura
Toshiyuki NAKAMURA

Hideto Tanaka
Hideto TANAKA

Akira Ichiryu
Akira ICHIRYU

Motonobu Takahashi
Motonobu TAKAHASHI

Masahito Ishii
Masahito ISHII

Daisuke Arai
Daisuke ARAI

Attached sheet

ASSIGNMENT

Assignors' names and residences

- 1) Toshiyuki NAKAMURA: c/o SUZUKI CO., LTD., 2150-1, Oaza Ogawara, Suzaka-shi, Nagano 382-8588, Japan
- 2) Hideto TANAKA: c/o SUZUKI CO., LTD., 2150-1, Oaza Ogawara, Suzaka-shi, Nagano 382-8588, Japan
- 3) Akira ICHIRYU: c/o MITSUI MINING & SMELTING CO., LTD. Corporate R & D Center, 1333-2, Haraichi, Ageo-shi, Saitama 362-0021, Japan
- 4) Motonobu TAKAHASHI: c/o MITSUI MINING & SMELTING CO., LTD. Corporate R & D Center, 1333-2, Haraichi, Ageo-shi, Saitama 362-0021, Japan
- 5) Masahito ISHII: 4-19-15, Higashi Toyoda, Hino-shi, Tokyo 191-0052, Japan
- 6) Daisuke ARAI: c/o MITSUI MINING & SMELTING CO., LTD. Corporate R & D Center, 1333-2, Haraichi, Ageo-shi, Saitama 362-0021, Japan